ESI—FTMS DETECTION OF SAMPLE 232
IN RAT SERUM

FIG. 1

a.i.

1000000

500000

0

232.9718
231.9016

256.7572
260.2413
276.6908
286.9919
297.2417
301.1427

210   230   250   270   290   310   m/z

/u/data/ESPIRON/NANO ESI TUNE/1/pdata/1   xspec   Tue Sep 28 18:04:51 1999

XMASS Mass Analysis for /u/data/ESPIRON/NANO_ESI_TUNE/1/pdata/1/massanal.res:
        XMASS Mass Analysis Constraints

Ion mass [1] =   325.2005500
Ion mass [2] =   297.2416910
Ion mass [3] =   301.1426890
Ion mass [4] =   286.9918690
Ion mass [5] =   232.9718330
Ion mass [6] =   231.9015670
Ion mass [7] =   214.0071700
Ion mass [8] =   326.2039470
Ion mass [9] =   210.0501390
Ion mass [10] =   260.2412610
Ion mass [11] =   216.9938940
Ion mass [12] =   200.0411420
Ion mass [13] =   260.9126560
Ion mass [14] =   240.5409770
Ion mass [15] =   219.0724470
Ion mass [16] =   223.8996390
Ion mass [17] =   232.2362940
Ion mass [18] =   249.0623590
Ion mass [19] =   276.6907760
Ion mass [20] =   270.6861980

FIG. #2

Charge = +1
Tolerance = 0.1000000

DBE min = -2
DBE max =   11

Max Candidates = 100

Atom	#(min, max)		Wt%(min, max)	
12C	5	20	0.00	100.00
1H	5	40	0.00	100.00
16O	1	5	0.00	100.00
23Na	1	1	0.00	100.00

#	12C	1H	16O	23Na	mass	DBE	error

.19

*** Mass Analysis for mass 325.2005500

1	16	30	5	1	325.1985452	1.5	6.165e-06
2	20	30	2	1	325.2138013	5.5	4.075e-05
3	19	26	3	1	325.1774158	6.5	7.114e-05
4	17	34	4	1	325.2349307	0.5	1.057e-04

OK +Na

*** Mass Analysis for mass 297.2416910

1	16	34	3	1	297.2400160	-0.5	5.635e-06
2	19	30	1	1	297.2188867	4.5	7.672e-05
3	17	38	2	1	297.2764016	-1.5	1.168e-04
4	15	30	4	1	297.2036305	0.5	1.280e-04

11 OK +Na

*** Mass Analysis for mass 301.1426890

1	16	22	4	1	301.1410303	5.5	5.508e-06
2	20	22	1	1	301.1562864	9.5	4.515e-05
3	19	18	2	1	301.1199009	10.5	7.567e-05
4	17	26	3	1	301.1774158	4.5	1.153e-04
5	15	18	5	1	301.1046448	6.5	1.263e-04

15 OK +Na

*** Mass Analysis for mass 286.9918690

*** Mass Analysis for mass 232.9718330
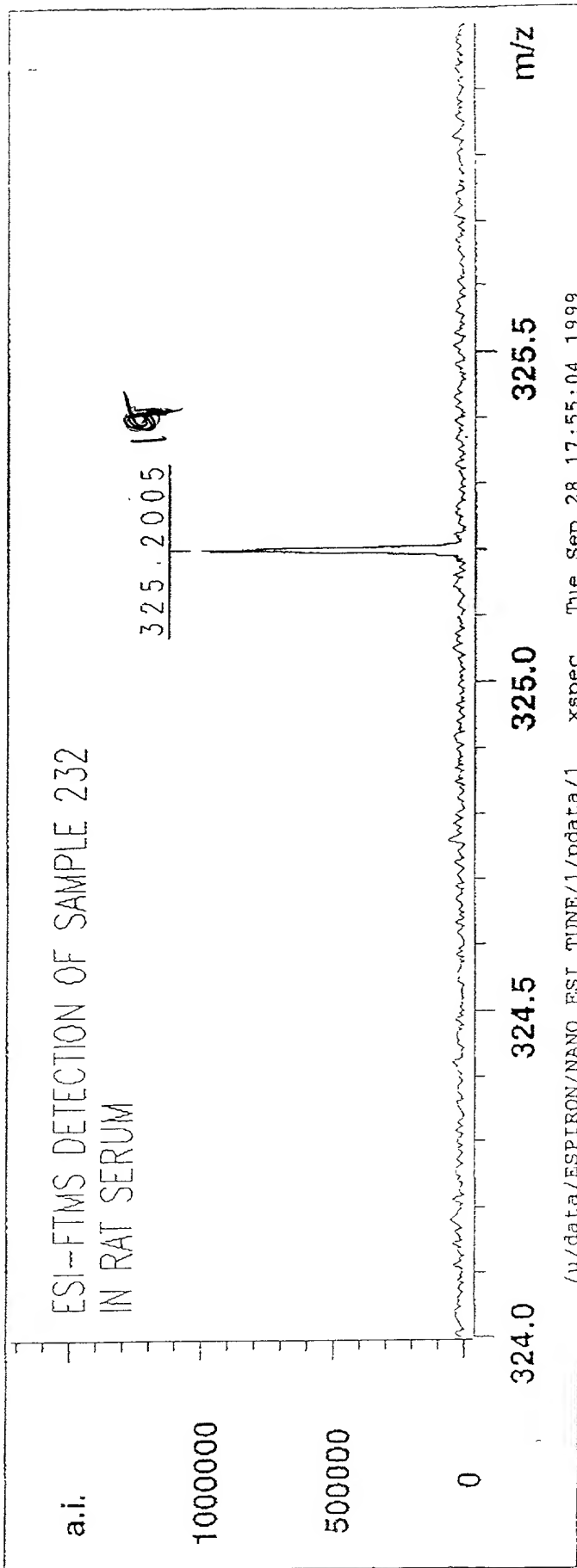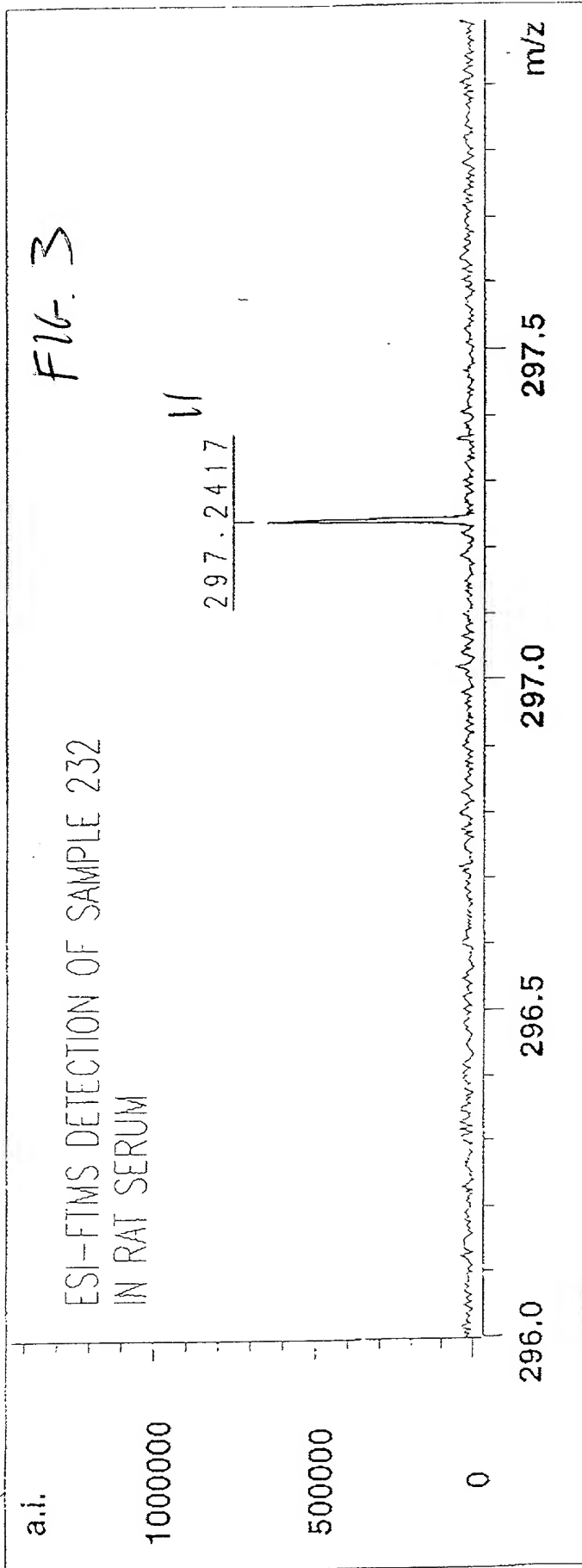
*** Mass Analysis for mass 231.9015670

#3

FIG. 3

a.i.

ESI-FTMS DETECTION OF SAMPLE 232
IN RAT SERUM

1000000

500000

0

297.2417 1/

296.0   296.5   297.0   297.5   m/z

a.i.

ESI-FTMS DETECTION OF SAMPLE 232
IN RAT SERUM

1000000

500000

0

325.2005 19

324.0   324.5   325.0   325.5   m/z

/u/data/ESPIRON/NANO_ESI_TUNE/1/pdata/1   xspec   Tue Sep 28 17:55:04 1999

FIG. 4

ESI-FTMS OF SAMPLE 1 RAT SERUM.
PROTEIN PRECIPITATED AND DESALTED
USING ION EXCHANGE RESIN.

SERUM 2

SERUM 3

SERUM 4

SERUM 5

SERUM 6

a.i.

0.0e+00

-5.0e+10

-1.0e+11

-1.5e+11

-2.0e+11

-2.5e+11

765   767   769   m/z

/u/data/BSPIRON/ESI SERUM SAMPLE 1/1/pdata/1   xspec   Tue Sep 28 17:29:54 1999